BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: *Estimate for Improvements to Footpaths in Cross Roads of Kodigehalli in Ward no 12 - Kodigehalli*

ESTIMATED COST: Rs.30 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer-Byatarayanapura

Detailed Estimate

Name of the Work : Improvements to Footpaths in cross roads of Kodigehalli in Word No-12-Kodigehalli

							Estimate Amount Rs		**3000000.00**
Sl. No.	**Particulars**	**Unit**	**Nos**	**L in m**	**B in m**	**D in m**	**Quantity**	**Rate in Rs**	**Total Amount in Rs**
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.								
	(Page No. 5, Sl.No.1.4.1 of KPWD S.R 2021-22.Volume-1).								
		Cum							
	Basic rate	***186.00***							
	Area Wieght age @ 10%	***18.60***							
	Total Rate in Rs	***204.60***							
	N.Damodarn Park East & West side		2	72.00	1.20	0.25	43.20		
	N.Damodarn Park North & South side		2	232.00	1.20	0.25	139.20		
	N.Damodarn Park to Cauvery Public School		2	194.00	1.20	0.25	116.40		
	Desilting								
	N.Damodarn Park East & West side		2	72.00	0.40	0.35	20.16		
	N.Damodarn Park North & South side		2	232.00	0.40	0.35	64.96		
	N.Damodarn Park to Cauvery Public School		2	194.00	0.40	0.35	54.32		
							438.24	**204.60**	**89663.90**
2	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22)								
		Cum							
	Basic Rate	**6256.00**							
	5% for Centring	**312.80**							
	Sub Total	**6568.80**							
	Area Weightage 10%	**656.88**							
	Total Rate	**7225.68**							
	Drain Coping								
	Damodar Park East & West side		**2.00**	72.00	**0.15**	**0.20**	**4.32**		

	Damodar Park North & South side		2.00	232.00	0.15	0.20	13.92		
	N.Damodarn Park to Cauvery Public School		2.00	194.00	0.15	0.20	11.64		
							29.88	7225.68	215903.32
3	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) issue rate dated 07-04-22								
		tn							
	Basic Rate	103329.00							
	Area Weightage 10%	10332.90							
	Total Rate	113661.90							
	For RCC Drain wall Coping 45kg/Sqm		1.00	29.88	45.00		1344.60		
		Kg					1344.60		
		tn					1.34	113661.90	152829.79
4	**Removing and Resetting of Footpath Slab and pointing in C.M (1:3) (Approved Rate)**								
		Sqm							
	Approved Rate	235							
	N.Damodarn Park East & West side		2	72.00	1.20		172.8		
	N.Damodarn Park North & South side		2	232.00	1.20		556.8		
	N.Damodarn Park to Cauvery Public School		2	194.00	1.20		465.6		
	Total Qnty						1195.2		
	Considering 80% Quantity from Item No.4						956.16	235	224697.6
5	**Providing B S slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)**								
	Approved Rate on 18-06-2022								
		Sqm							
	Aapproved rate	***837.00***							
	Considering 20% Quantity from Item No.4 as missing slab						239.04	837.00	200076.48
6	**Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (V-II.No 9.31,Page No-64 PWD SR 2021-22)**								
	S.R.page 64 SL NO 9.32 of KPWD S.R 2021-22).Volume 2								
		Sqm							
	Basic rate	***1145.00***							
	Area Wieght age @ 10%	***114.50***							
	Total Rate in Rs	***1259.50***							
	APTS								
	Damodar Park East & West side		2	72.00	1.20		172.80		
	Damodar Park North & South side		2	232.00	1.20		556.80		
	N.Damodarn Park to Cauvery Public School		2	194.00	1.20		465.60		
							1195.20		
	Considering 20% Quantity from Item No.6						239.04	1259.50	301070.88
7	Removing andresetting of cobble stones(Approved Rate)								
	Approved Rate on 18-06-2022								
		Sqm							
	(Approved Rate)	380.00							

	Considering 80% Quantity from Item No.6						**956.16**		
							956.16	**380.00**	**3,63,340.80**
8	**Removing and resetting of kerb stones(Approved Rate)**								
	Approved Rate on 18-06-2022								
		m							
	(Approved Rate)	**118.00**							
	Damodar Park East & West side		2	72.00			72.00		
	Damodar Park North & South side		2	232.00			232.00		
	N.Damodarn Park to Cauvery Public School		2	194.00			194.00		
							498.00		
	80% Of total Length						**398.40**	**118.00**	**47,011.20**
	20%Considered as damaged						**99.60**		
9	**Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates**								
	(Page No. 15, SI.No.2.1.3 of KPWD S.R 2021-22.Volume-1).								
		Cum							
	Basic rate	***5752.00***							
	Area Wieght age @ 10%	***575.20***							
	Total Rate in Rs	**6327.20**							
	Damodar Park East & West side		**2**	72.00	**1.20**	**0.10**	**17.28**		
	Damodar Park North & South side		**2**	**232.00**	**1.20**	**0.10**	**55.68**		
	N.Damodarn Park to Cauvery Public School		**2**	194.00	**1.20**	**0.10**	**46.56**		
							119.52	**6327.20**	**756226.94**
10	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (Approved Rate)								
	Approved Rate	507.00							
	New Kerbs	**No's**							
							498.00		
	20% New Kerb stone						**99.60**	**507.00**	**50,497.20**
11	**Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III No-8.10,P No-56 of PWD BCSR 2021-22)**								
		Sqm							
	A.Basic rate	**85.00**							
	B.Area Weightage 10%	**8.50**							
	Total	**93.50**							
	Damodar Park East & West side		**2**	72.00		**0.35**	**50.40**		
	Damodar Park North & South side		**2**	**232.00**		**0.35**	**162.40**		
	N.Damodarn Park to Cauvery Public School		**2**	194.00		**0.35**	**135.80**		
							348.60	**93.50**	**32594.10**

12	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22)								
		t.km							
	Basic Rate	12.00							
	8KM Lead = 12*8	96.00							
	Area Weightage 10%	9.60							
	Total Rate	105.60							
	Qty frm Item No-1 ,6 & 8			776.88	1.28		994.41	105.60	105009.32
							Sub Total		2538921.53
								18% GST	457005.88
							Missalaneous & Round off		4072.59
							Grand Total		3000000.00

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ಚ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

Technical Sanction
Accorded For 30.00 lakhs only
Head of A/C R3726
CER NO : 152 Dt: 16/09/22

Administrative Approval
Accorded For 30.00 Lakh only
Head of A/C R3726
CER NO : 152 Dt: 16/09/22

EA

CE (NK)

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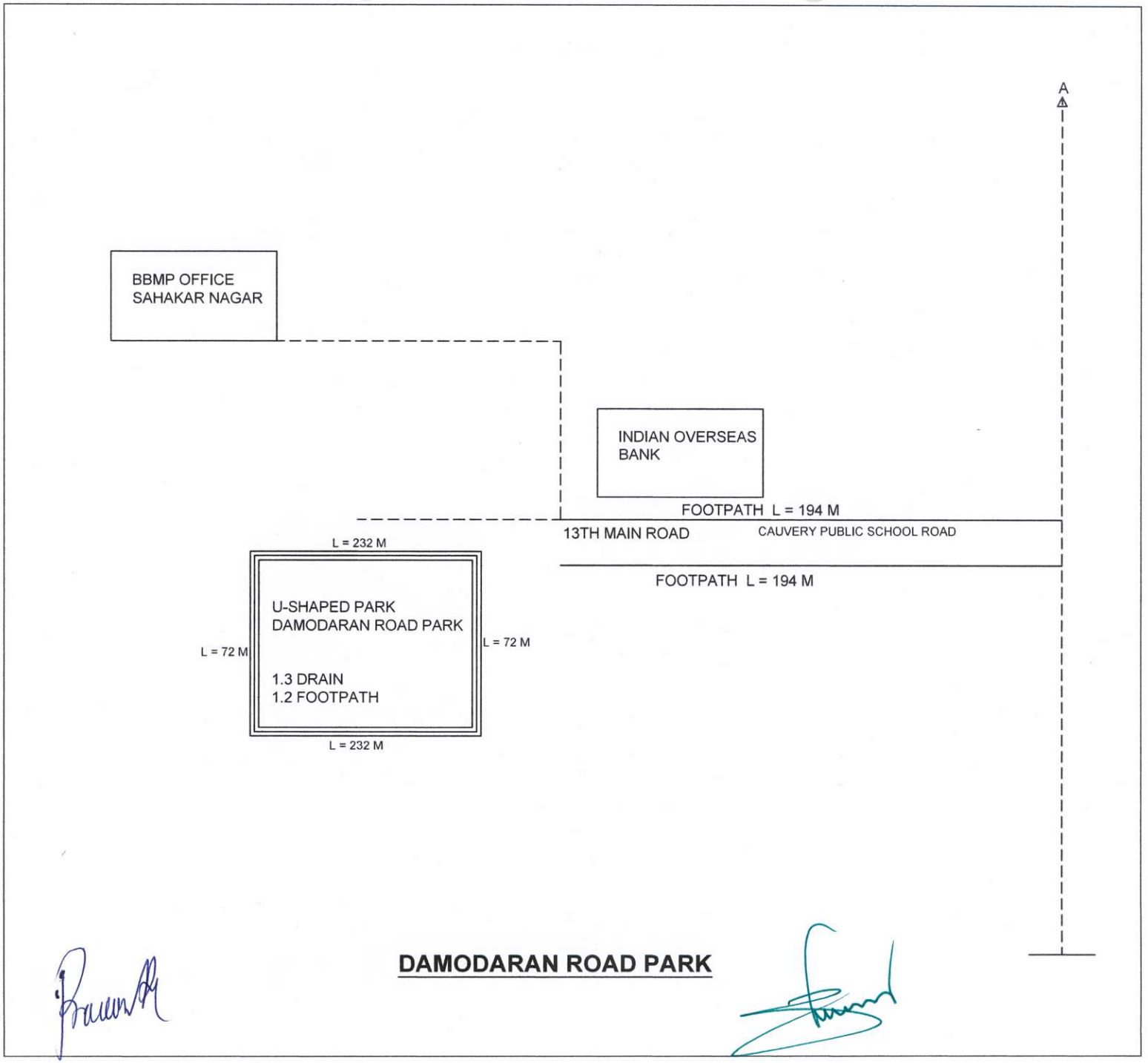
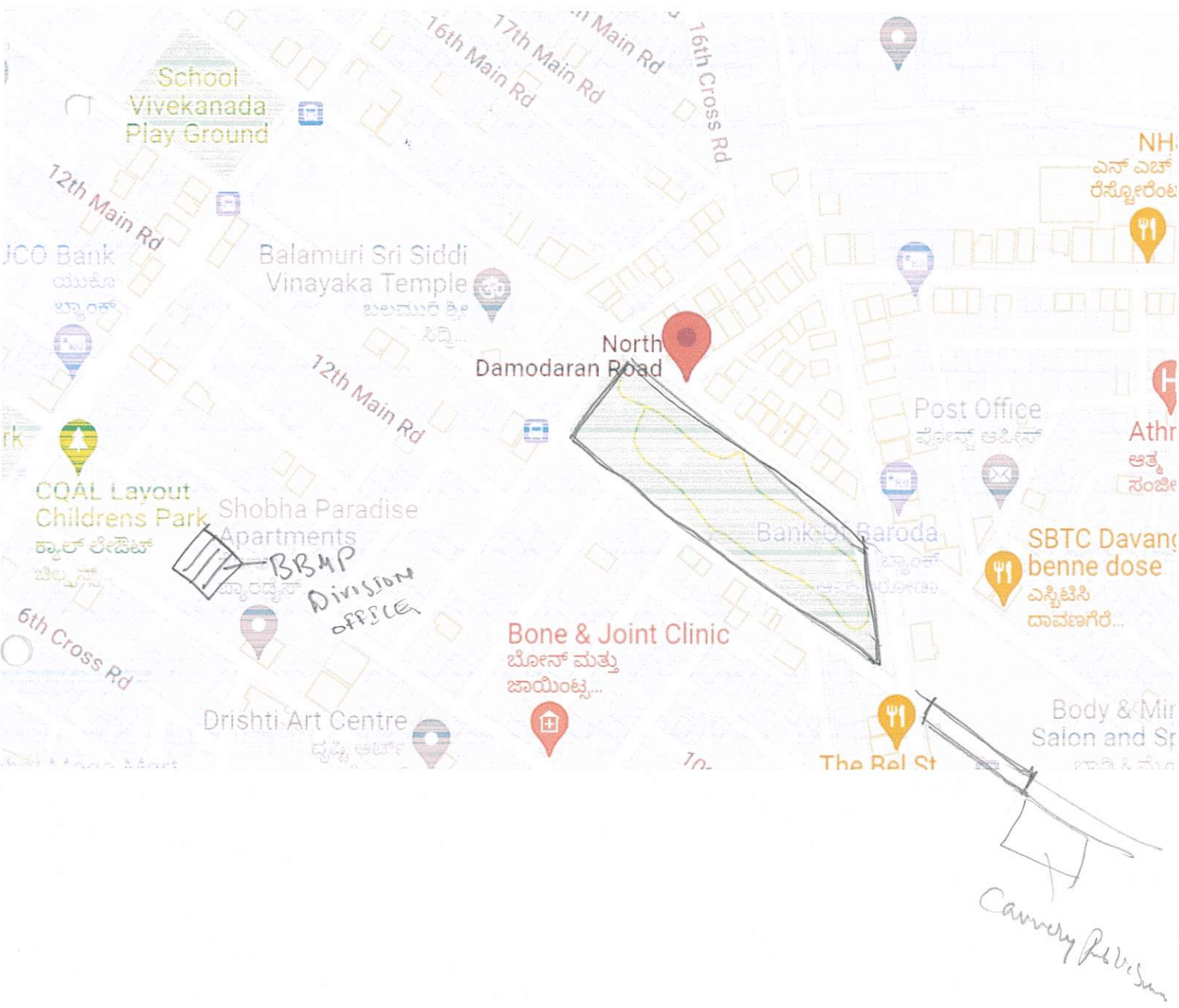
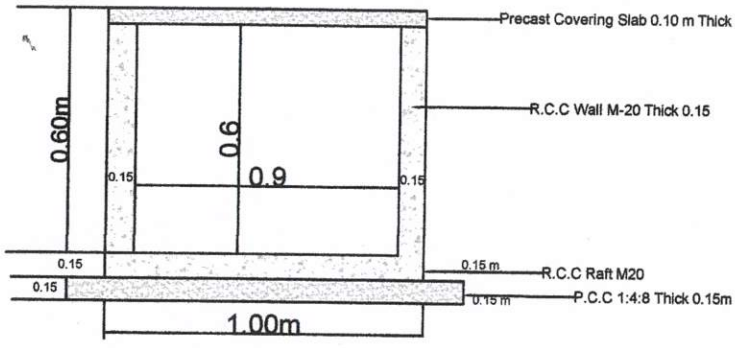
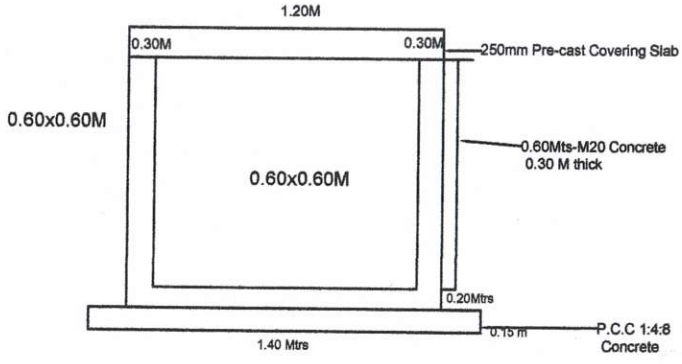


DAMODARAN ROAD PARK


School
Vivekanada
Play Ground
16th Main Rd
17th Main Rd
16th Cross Rd
12th Main Rd
JCO Bank
Balamuri Sri Siddi
Vinayaka Temple
North
Damodaran Road
Post Office
CQAL Layout
Childrens Park
Shobha Paradise
Apartments
BBMP
Division
Office
Bank of Baroda
SBTC Davan
benne dose
6th Cross Rd
Bone & Joint Clinic
Drishti Art Centre
Body & Mi
Salon and Sp
Cannery Pub



TYPICAL CROSS SECTION OF DRAIN



TYPICAL CROSS SECTION OF RCC CULVERT

Aartn Associates

Assistant Engineer

Assistant Executive Engineer
Yelahanka Zone
Bangalore-64

CLIENT:-		TITLE:	Revisions		
BRUHAT BANGALORE MAHANAGARA PALIKE		TYPICAL CROSS SECTION OF & DRAIN RCC Culvert	Rev.	Date	Description
			00		Initial Drawing for Approv
		SCALE:			